



**STATE OF TENNESSEE
DEPARTMENT OF HEALTH
ENVIRONMENTAL LABORATORIES**

TDH: Lab Services JRL
Lab Services - Jackson Regional Lab
Jackson, TN 38301
731-426-0686

TDH: Lab Services KRL
Lab Services - Knoxville Regional Lab
Knoxville, TN 37920
865-549-5201

TDH: Lab Services NCL
Lab Services - Nashville Central Lab
Nashville, TN 37243
615-262-6300

Sent To: Greg Denton
TDEC-WPC
6th Floor, L & C Tower Annex
401 Church Street
Nashville, TN 37243-1534

Michael Atchley
TDEC-WPC
Knoxville FO
3711 Middlebrook Pike
Knoxville, TN 37921

Lab ID: K00002410
Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

Billing Code: 327.34-20

This is to certify that the following results were determined using
good laboratory practices and in accordance with federal or state
approved methodologies.


Analytical Supervisor

Lab-Sample Number: K00002410001

Project Name: TVA-Ash Spill

Sample Description: Trip Blank

Sampler Project Name: TVA ash spill

Project Site No.:

Station No.: Trip Blank

Date/Time Collected: 05/28/2009 08:50

Sampler's Name: Geoff Klein

County: ROANE - 73

Sample Matrix: Water

EFO: Knoxville

Sampling Agency: TDEC-WPC

Billing Code: 327.34-20

Send Report To: TDEC-WPC

Agency Invoiced: TDEC-WPC

Priority Date:

Date/Time Received: 05/28/2009 14:31

Received By: Ken Hitchman

Field Determinations

pH:

Chlorine, residual:

Conductivity:

Temperature:

Dissolved Oxygen:

Other:

Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	U	mg/L	3.8	10	M Chen	6/2/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	U	mg/L	0.7	1	S Burchfield	5/29/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	5/29/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002410002
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 12.1
Sampler Project Name: TVA ash spill
Project Site No.: 1
Station No.: EMORY012.1RO
Date/Time Collected: 05/28/2009 09:45
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 7.67 pH Units
Chlorine, residual:
Conductivity: 88 uMHO
Temperature: 21.06
Dissolved Oxygen: 8.17 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	23	mg/L	3.8	10	M Chen	6/2/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	23	mg/L	0.7	1	S Burchfield	5/29/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/29/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	5/29/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002410003
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 2.1
Sampler Project Name: TVA ash spill
Project Site No.: 2
Station No.:
Date/Time Collected: 05/28/2009 10:48
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations

pH: 7.42 pH Units
Chlorine, residual:
Conductivity: 111 uMHO
Temperature: 22.84
Dissolved Oxygen: 8.28 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	35	mg/L	3.8	10	M Chen	6/2/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	32	mg/L	0.7	1	S Burchfield	5/29/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	0.1	ml/L	0.10	0.10	P Leathers	5/29/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	59	mg/L	10	10	A Peebles	5/29/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002410004
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.9 at underwater weir
Sampler Project Name: TVA ash spill
Project Site No.: 2B
Station No.: EMORY001.9RO
Date/Time Collected: 05/28/2009 10:58
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 7.44 pH Units
Chlorine, residual:
Conductivity: 103 uMHO
Temperature: 22.50
Dissolved Oxygen: 8.93 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	78	mg/L	3.8	10	M Chen	6/2/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	66	mg/L	0.7	1	S Burchfield	5/29/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/29/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	17	mg/L	10	10	A Peoples	5/29/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002410005
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.7
Sampler Project Name: TVA ash spill
Project Site No.: 3
Station No.: EMORY001.7RO
Date/Time Collected: 05/28/2009 11:08
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 7.97 pH Units
Chlorine, residual:
Conductivity: 173 uMHO
Temperature: 21.80
Dissolved Oxygen: 10.43 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	94	mg/L	3.8	10	M Chen	6/2/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	78	mg/L	0.7	1	S Burchfield	5/29/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/29/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	5/29/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002410006
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 0.1
Sampler Project Name: TVA ash spill
Project Site No.: 4
Station No.: EMORY000.1RO
Date/Time Collected: 05/28/2009 11:16
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations

pH: 8.46 pH Units
Chlorine, residual:
Conductivity: 209 uMHO
Temperature: 22.30
Dissolved Oxygen: 11.63 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	100	mg/L	3.8	10	M Chen	6/2/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	84	mg/L	0.7	1	S Burchfield	5/29/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/29/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	5/29/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002410007
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 2.3
Sampler Project Name: TVA ash spill
Project Site No.: 5
Station No.: CLINC002.3RO
Date/Time Collected: 05/28/2009 11:33
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 8.08 pH Units
Chlorine, residual:
Conductivity: 202 uMHO
Temperature: 21.88
Dissolved Oxygen: 10.52 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	76	mg/L	3.8	10	M Chen	6/2/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	67	mg/L	0.7	1	S Burchfield	5/29/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/29/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	5/29/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002410008
Project Name: TVA-Ash Spill
Sample Description: Clinch River TVA discharge point
Sampler Project Name: TVA ash spill
Project Site No.: 5A
Station No.: KingAshOutF2
Date/Time Collected: 05/28/2009 11:41
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 7.81 pH Units
Chlorine, residual:
Conductivity: 201 uMHO
Temperature: 21.82
Dissolved Oxygen: 9.78 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	72	mg/L	3.8	10	M Chen	6/2/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	64	mg/L	0.7	1	S Burchfield	5/29/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/29/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	14	mg/L	10	10	A Peebles	5/29/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number:	K00002410009	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	8.34 pH Units
Sample Description:	Clinch River mile 4.5 near Sugar Grove Valley F	Chlorine, residual:	
Sampler Project Name:	TVA ash spill	Conductivity:	226 uMHO
Project Site No.:	6	Temperature:	20.86
Station No.:	CLINC004.5RO	Dissolved Oxygen:	11.70 mg/L
Date/Time Collected:	05/28/2009 11:52	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	05/28/2009 14:31		
Received By:	Ken Hitchman		

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	100	mg/L	3.8	10	M Chen	6/2/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	88	mg/L	0.7	1	S Burchfield	5/29/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/29/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	5/29/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected



**STATE OF TENNESSEE
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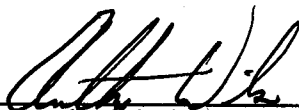
Michael Atchley
TDEC-WPC
Knoxville FO
3711 Middlebrook Pike
Knoxville, TN 37921

Lab ID: K00002410
Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

Billing Code: 327.34-20

This is to certify that the following results were determined using
good laboratory practices and in accordance with federal or state
approved methodologies.


Analytical Supervisor

Lab-Sample Number: K00002410001
Project Name: TVA-Ash Spill
Sample Description: Trip Blank
Sampler Project Name: TVA ash spill
Project Site No.:
Station No.: Trip Blank
Date/Time Collected: 05/28/2009 08:50
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations

pH:
Chlorine, residual:
Conductivity:
Temperature:
Dissolved Oxygen:
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	06/01/2009				S Ufegbu	6/1/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	U	µg/L	2.9	10	A Bass	6/29/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	U	µg/L	6.4	10	A Wilson	6/29/2009
Antimony	U	µg/L	0.33	1	A Wilson	6/29/2009
Arsenic	U	µg/L	0.93	5	A Wilson	6/30/2009
Barium	U	µg/L	2.5	5	A Wilson	6/29/2009
Beryllium	U	µg/L	0.11	1	A Wilson	6/29/2009
Cadmium	U	µg/L	0.41	1	A Wilson	6/29/2009
Chromium	U	µg/L	2.0	5	A Wilson	6/29/2009
Cobalt	11	µg/L	0.04	1	A Wilson	6/29/2009
Copper	U	µg/L	0.38	1	A Wilson	6/29/2009
Lead	U	µg/L	0.10	1	A Wilson	6/29/2009
Manganese	0.95J	µg/L	0.42	1	A Wilson	6/29/2009
Nickel	U	µg/L	0.25	1	A Wilson	6/29/2009
Selenium	U	µg/L	1.3	5	A Wilson	6/30/2009
Silver	U	µg/L	0.03	0.25	A Wilson	6/29/2009
Thallium	U	µg/L	0.03	1	A Wilson	6/29/2009
Vanadium	U	µg/L	3.4	5	A Wilson	6/29/2009
Zinc	3.6J	µg/L	1.9	5	A Wilson	6/29/2009

Lab-Sample Number: K00002410001
Project Name: TVA-Ash Spill
Sample Description: Trip Blank
Sampler Project Name: TVA ash spill
Project Site No.:
Station No.: Trip Blank
Date/Time Collected: 05/28/2009 08:50
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations

pH:

Chlorine, residual:

Conductivity:

Temperature:

Dissolved Oxygen:

Other:

Flow:

CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MLQ	ANALYZED BY:	DATE
Mercury	0.03J	µg/L	0.029	0.2	A Bass	6/2/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002410002
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 12.1
Sampler Project Name: TVA ash spill
Project Site No.: 1
Station No.: EMORY012.1RO
Date/Time Collected: 05/28/2009 09:45
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 7.67 pH Units
Chlorine, residual:
Conductivity: 88 uMHO
Temperature: 21.06
Dissolved Oxygen: 8.17 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	06/01/2009				S Ufegbu	6/1/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	160	µg/L	2.9	10	A Bass	6/29/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	76	µg/L	6.4	10	A Wilson	6/29/2009
Antimony	U	µg/L	0.33	1	A Wilson	6/29/2009
Arsenic	U	µg/L	0.93	5	A Wilson	6/30/2009
Barium	33	µg/L	2.5	5	A Wilson	6/29/2009
Beryllium	U	µg/L	0.11	1	A Wilson	6/29/2009
Cadmium	U	µg/L	0.41	1	A Wilson	6/29/2009
Chromium	U	µg/L	2.0	5	A Wilson	6/29/2009
Cobalt	2.0	µg/L	0.04	1	A Wilson	6/29/2009
Copper	2.5	µg/L	0.38	1	A Wilson	6/29/2009
Lead	0.25J	µg/L	0.10	1	A Wilson	6/29/2009
Manganese	54	µg/L	0.42	1	A Wilson	6/29/2009
Nickel	1.3	µg/L	0.25	1	A Wilson	6/29/2009
Selenium	1.9J	µg/L	1.3	5	A Wilson	6/30/2009
Silver	U	µg/L	0.03	0.25	A Wilson	6/29/2009
Thallium	U	µg/L	0.03	1	A Wilson	6/29/2009
Vanadium	U	µg/L	3.4	5	A Wilson	6/29/2009
Zinc	3.7J	µg/L	1.9	5	A Wilson	6/29/2009

Lab-Sample Number: K00002410002
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 12.1
Sampler Project Name: TVA ash spill
Project Site No.: 1
Station No.: EMORY012.1RO
Date/Time Collected: 05/28/2009 09:45
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 7.67 pH Units
Chlorine, residual:
Conductivity: 88 uMHO
Temperature: 21.06
Dissolved Oxygen: 8.17 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.12J	µg/L	0.029	0.2	A Bass	6/2/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002410003
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 2.1
Sampler Project Name: TVA ash spill
Project Site No.: 2
Station No.: EMORY002.1RO
Date/Time Collected: 05/28/2009 10:48
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 7.42 pH Units
Chlorine, residual:
Conductivity: 111 uMHO
Temperature: 22.84
Dissolved Oxygen: 8.28 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	06/01/2009				S Ufegbu	6/1/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	1600	µg/L	2.9	10	A Bass	6/29/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	3100	µg/L	6.4	10	A Wilson	6/29/2009
Antimony	0.80J	µg/L	0.33	1	A Wilson	6/29/2009
Arsenic	15	µg/L	0.93	5	A Wilson	6/30/2009
Barium	110	µg/L	2.5	5	A Wilson	6/29/2009
Beryllium	0.52J	µg/L	0.11	1	A Wilson	6/29/2009
Cadmium	U	µg/L	0.41	1	A Wilson	6/29/2009
Chromium	2.9J	µg/L	2.0	5	A Wilson	6/29/2009
Cobalt	5.5	µg/L	0.04	1	A Wilson	6/29/2009
Copper	7.9	µg/L	0.38	1	A Wilson	6/29/2009
Lead	4.8	µg/L	0.10	1	A Wilson	6/29/2009
Manganese	140	µg/L	0.42	1	A Wilson	6/29/2009
Nickel	5.1	µg/L	0.25	1	A Wilson	6/29/2009
Selenium	6.6	µg/L	1.3	5	A Wilson	6/29/2009
Silver	0.036J	µg/L	0.03	0.25	A Wilson	6/29/2009
Thallium	0.33J	µg/L	0.03	1	A Wilson	6/29/2009
Vanadium	16	µg/L	3.4	5	A Wilson	6/29/2009
Zinc	9.7	µg/L	1.9	5	A Wilson	6/29/2009

Lab-Sample Number: K00002410003
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 2.1
Sampler Project Name: TVA ash spill
Project Site No.: 2
Station No.: EMORY002.1RO
Date/Time Collected: 05/28/2009 10:48
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 7.42 pH Units
Chlorine, residual:
Conductivity: 111 uMHO
Temperature: 22.84
Dissolved Oxygen: 8.28 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Mercury	0.03J	µg/L	0.029	0.2	A Bass	6/2/2009	

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002410004
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.9 at underwater weir
Sampler Project Name: TVA ash spill
Project Site No.: 2B
Station No.: EMORY001.9RO
Date/Time Collected: 05/28/2009 10:58
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 7.44 pH Units
Chlorine, residual:
Conductivity: 103 uMHO
Temperature: 22.50
Dissolved Oxygen: 8.93 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	06/01/2009				S Ufegbu	6/1/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	350	µg/L	2.9	10	A Bass	6/29/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	530	µg/L	6.4	10	A Wilson	6/29/2009
Antimony	0.62J	µg/L	0.33	1	A Wilson	6/29/2009
Arsenic	2.1J	µg/L	0.93	5	A Wilson	6/30/2009
Barium	42	µg/L	2.5	5	A Wilson	6/29/2009
Beryllium	U	µg/L	0.11	1	A Wilson	6/29/2009
Cadmium	U	µg/L	0.41	1	A Wilson	6/29/2009
Chromium	U	µg/L	2.0	5	A Wilson	6/29/2009
Cobalt	1.8	µg/L	0.04	1	A Wilson	6/29/2009
Copper	3.0	µg/L	0.38	1	A Wilson	6/29/2009
Lead	0.83J	µg/L	0.10	1	A Wilson	6/29/2009
Manganese	56	µg/L	0.42	1	A Wilson	6/29/2009
Nickel	1.9	µg/L	0.25	1	A Wilson	6/29/2009
Selenium	U	µg/L	1.3	5	A Wilson	6/30/2009
Silver	U	µg/L	0.03	0.25	A Wilson	6/29/2009
Thallium	0.080J	µg/L	0.03	1	A Wilson	6/29/2009
Vanadium	U	µg/L	3.4	5	A Wilson	6/29/2009
Zinc	5.4	µg/L	1.9	5	A Wilson	6/29/2009

Lab-Sample Number: K00002410004
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.9 at underwater weir
Sampler Project Name: TVA ash spill
Project Site No.: 2B
Station No.: EMORY001.9RO
Date/Time Collected: 05/28/2009 10:58
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 7.44 pH Units
Chlorine, residual:
Conductivity: 103 uMHO
Temperature: 22.50
Dissolved Oxygen: 8.93 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Mercury	0.08J	µg/L	0.029	0.2	A Bass	6/2/2009	

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002410005
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.7
Sampler Project Name: TVA ash spill
Project Site No.: 3
Station No.: EMORY001.7RO
Date/Time Collected: 05/28/2009 11:08
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 7.97 pH Units
Chlorine, residual:
Conductivity: 173 uMHO
Temperature: 21.80
Dissolved Oxygen: 10.43 mg/L
Other:
Flow: CFS

TEST: Digestion Metals			METHOD: EPA 200.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	06/01/2009				S Ufegbu	6/1/2009

TEST: ICP			METHOD: EPA 200.7			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	200	µg/L	2.9	10	A Bass	6/29/2009

TEST: ICP-MS			METHOD: EPA 200.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	280	µg/L	6.4	10	A Wilson	6/29/2009
Antimony	U	µg/L	0.33	1	A Wilson	6/29/2009
Arsenic	2.6J	µg/L	0.93	5	A Wilson	6/30/2009
Barium	42	µg/L	2.5	5	A Wilson	6/29/2009
Beryllium	U	µg/L	0.11	1	A Wilson	6/29/2009
Cadmium	U	µg/L	0.41	1	A Wilson	6/29/2009
Chromium	U	µg/L	2.0	5	A Wilson	6/29/2009
Cobalt	0.45J	µg/L	0.04	1	A Wilson	6/29/2009
Copper	3.3	µg/L	0.38	1	A Wilson	6/29/2009
Lead	0.47J	µg/L	0.10	1	A Wilson	6/29/2009
Manganese	44	µg/L	0.42	1	A Wilson	6/29/2009
Nickel	1.7	µg/L	0.25	1	A Wilson	6/29/2009
Selenium	2.0J	µg/L	1.3	5	A Wilson	6/30/2009
Silver	U	µg/L	0.03	0.25	A Wilson	6/29/2009
Thallium	0.061J	µg/L	0.03	1	A Wilson	6/29/2009
Vanadium	3.6J	µg/L	3.4	5	A Wilson	6/29/2009
Zinc	3.6J	µg/L	1.9	5	A Wilson	6/29/2009

Lab-Sample Number: K00002410005
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.7
Sampler Project Name: TVA ash spill
Project Site No.: 3
Station No.: EMORY001.7RO
Date/Time Collected: 05/28/2009 11:08
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 7.97 pH Units
Chlorine, residual:
Conductivity: 173 uMHO
Temperature: 21.80
Dissolved Oxygen: 10.43 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.09J	µg/L	0.029	0.2	A Bass	6/2/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002410006
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 0.1
Sampler Project Name: TVA ash spill
Project Site No.: 4
Station No.: EMORY000.1RO
Date/Time Collected: 05/28/2009 11:16
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 8.46 pH Units
Chlorine, residual:
Conductivity: 209 uMHO
Temperature: 22.30
Dissolved Oxygen: 11.63 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	06/01/2009				S Ufegbu	6/1/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	230	µg/L	2.9	10	A Bass	6/29/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	350	µg/L	6.4	10	A Wilson	6/29/2009
Antimony	U	µg/L	0.33	1	A Wilson	6/29/2009
Arsenic	1.3J	µg/L	0.93	5	A Wilson	6/30/2009
Barium	37	µg/L	2.5	5	A Wilson	6/29/2009
Beryllium	U	µg/L	0.11	1	A Wilson	6/29/2009
Cadmium	U	µg/L	0.41	1	A Wilson	6/29/2009
Chromium	U	µg/L	2.0	5	A Wilson	6/29/2009
Cobalt	0.47J	µg/L	0.04	1	A Wilson	6/29/2009
Copper	2.8	µg/L	0.38	1	A Wilson	6/29/2009
Lead	0.41J	µg/L	0.10	1	A Wilson	6/29/2009
Manganese	39	µg/L	0.42	1	A Wilson	6/29/2009
Nickel	1.6	µg/L	0.25	1	A Wilson	6/29/2009
Selenium	1.7J	µg/L	1.3	5	A Wilson	6/30/2009
Silver	U	µg/L	0.03	0.25	A Wilson	6/29/2009
Thallium	0.046J	µg/L	0.03	1	A Wilson	6/29/2009
Vanadium	5.5	µg/L	3.4	5	A Wilson	6/29/2009
Zinc	3.8J	µg/L	1.9	5	A Wilson	6/29/2009

Lab-Sample Number: K00002410006
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 0.1
Sampler Project Name: TVA ash spill
Project Site No.: 4
Station No.: EMORY000.1RO
Date/Time Collected: 05/28/2009 11:16
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 8.46 pH Units
Chlorine, residual:
Conductivity: 209 uMHO
Temperature: 22.30
Dissolved Oxygen: 11.63 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.10J	µg/L	0.029	0.2	A Bass	6/2/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002410007
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 2.3
Sampler Project Name: TVA ash spill
Project Site No.: 5
Station No.: CLINC002.3RO
Date/Time Collected: 05/28/2009 11:33
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 8.08 pH Units
Chlorine, residual:
Conductivity: 202 uMHO
Temperature: 21.88
Dissolved Oxygen: 10.52 mg/L
Other:
Flow: CFS

TEST: Digestion Metals			METHOD: EPA 200.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	06/01/2009				S Ufegbu	6/1/2009

TEST: ICP			METHOD: EPA 200.7			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	140	µg/L	2.9	10	A Bass	6/29/2009

TEST: ICP-MS			METHOD: EPA 200.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	280	µg/L	6.4	10	A Wilson	6/29/2009
Antimony	U	µg/L	0.33	1	A Wilson	6/29/2009
Arsenic	3.0J	µg/L	0.93	5	A Wilson	7/1/2009
Barium	40	µg/L	2.5	5	A Wilson	6/29/2009
Beryllium	U	µg/L	0.11	1	A Wilson	6/29/2009
Cadmium	U	µg/L	0.41	1	A Wilson	6/29/2009
Chromium	U	µg/L	2.0	5	A Wilson	6/29/2009
Cobalt	0.50J	µg/L	0.04	1	A Wilson	6/29/2009
Copper	4.2	µg/L	0.38	1	A Wilson	6/29/2009
Lead	0.48J	µg/L	0.10	1	A Wilson	6/29/2009
Manganese	35	µg/L	0.42	1	A Wilson	6/29/2009
Nickel	1.5	µg/L	0.25	1	A Wilson	6/29/2009
Selenium	U	µg/L	1.3	5	A Wilson	7/1/2009
Silver	U	µg/L	0.03	0.25	A Wilson	6/29/2009
Thallium	0.054J	µg/L	0.03	1	A Wilson	6/29/2009
Vanadium	3.9J	µg/L	3.4	5	A Wilson	6/29/2009
Zinc	4.9J	µg/L	1.9	5	A Wilson	6/29/2009

Lab-Sample Number: K00002410007
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 2.3
Sampler Project Name: TVA ash spill
Project Site No.: 5
Station No.: CLINC002.3RO
Date/Time Collected: 05/28/2009 11:33
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 8.08 pH Units
Chlorine, residual:
Conductivity: 202 uMHO
Temperature: 21.88
Dissolved Oxygen: 10.52 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.08J	µg/L	0.029	0.2	A Bass	6/2/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002410008
Project Name: TVA-Ash Spill
Sample Description: Clinch River TVA Discharge Point
Sampler Project Name: TVA ash spill
Project Site No.: 5A
Station No.: KingAshOutF2
Date/Time Collected: 05/28/2009 11:41
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 7.81 pH Units
Chlorine, residual:
Conductivity: 201 uMHO
Temperature: 21.82
Dissolved Oxygen: 9.78 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	06/01/2009				S Ufegbu	6/1/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	300	µg/L	2.9	10	A Bass	6/29/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	550	µg/L	6.4	10	A Wilson	6/29/2009
Antimony	U	µg/L	0.33	1	A Wilson	6/29/2009
Arsenic	2.5J	µg/L	0.93	5	A Wilson	7/1/2009
Barium	52	µg/L	2.5	5	A Wilson	6/29/2009
Beryllium	U	µg/L	0.11	1	A Wilson	6/29/2009
Cadmium	U	µg/L	0.41	1	A Wilson	6/29/2009
Chromium	U	µg/L	2.0	5	A Wilson	6/29/2009
Cobalt	0.84J	µg/L	0.04	1	A Wilson	6/29/2009
Copper	5.2	µg/L	0.38	1	A Wilson	6/29/2009
Lead	0.87J	µg/L	0.10	1	A Wilson	6/29/2009
Manganese	51	µg/L	0.42	1	A Wilson	6/29/2009
Nickel	2.1	µg/L	0.25	1	A Wilson	6/29/2009
Selenium	U	µg/L	1.3	5	A Wilson	7/1/2009
Silver	U	µg/L	0.03	0.25	A Wilson	6/29/2009
Thallium	0.090J	µg/L	0.03	1	A Wilson	6/29/2009
Vanadium	3.8J	µg/L	3.4	5	A Wilson	6/29/2009
Zinc	5.3	µg/L	1.9	5	A Wilson	6/29/2009

Lab-Sample Number: K00002410008
Project Name: TVA-Ash Spill
Sample Description: Clinch River TVA Discharge Point
Sampler Project Name: TVA ash spill
Project Site No.: 5A
Station No.: KingAshOutF2
Date/Time Collected: 05/28/2009 11:41
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/28/2009 14:31
Received By: Ken Hitchman

Field Determinations
pH: 7.81 pH Units
Chlorine, residual:
Conductivity: 201 uMHO
Temperature: 21.82
Dissolved Oxygen: 9.78 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.07J	µg/L	0.029	0.2	A Bass	6/2/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number:	K00002410009	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	8.34 pH Units
Sample Description:	Clinch River mile 4.5 near Sugar Grove Valley R	Chlorine, residual:	
Sampler Project Name:	TVA ash spill	Conductivity:	226 uMHO
Project Site No.:	6	Temperature:	20.86
Station No.:	CLINC004.5RO	Dissolved Oxygen:	11.70 mg/L
Date/Time Collected:	05/28/2009 11:52	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	05/28/2009 14:31		
Received By:	Ken Hitchman		

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	06/01/2009				S Ufegbu	6/1/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	230	µg/L	2.9	10	A Bass	6/29/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	320	µg/L	6.4	10	A Wilson	6/29/2009
Antimony	0.51J	µg/L	0.33	1	A Wilson	6/29/2009
Arsenic	1.9J	µg/L	0.93	5	A Wilson	7/1/2009
Barium	34	µg/L	2.5	5	A Wilson	6/29/2009
Beryllium	U	µg/L	0.11	1	A Wilson	6/29/2009
Cadmium	U	µg/L	0.41	1	A Wilson	6/29/2009
Chromium	U	µg/L	2.0	5	A Wilson	6/29/2009
Cobalt	1.1	µg/L	0.04	1	A Wilson	6/29/2009
Copper	1.6	µg/L	0.38	1	A Wilson	6/29/2009
Lead	0.50J	µg/L	0.10	1	A Wilson	6/29/2009
Manganese	35	µg/L	0.42	1	A Wilson	6/29/2009
Nickel	1.5	µg/L	0.25	1	A Wilson	6/29/2009
Selenium	U	µg/L	1.3	5	A Wilson	7/1/2009
Silver	U	µg/L	0.03	0.25	A Wilson	6/29/2009
Thallium	0.041J	µg/L	0.03	1	A Wilson	6/29/2009
Vanadium	U	µg/L	3.4	5	A Wilson	6/29/2009
Zinc	2.9J	µg/L	1.9	5	A Wilson	6/29/2009

Lab-Sample Number:	K00002410009	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	8.34 pH Units
Sample Description:	Clinch River mile 4.5 near Sugar Grove Valley R	Chlorine, residual:	
Sampler Project Name:	TVA ash spill	Conductivity:	226 uMHO
Project Site No.:	6	Temperature:	20.86
Station No.:	CLINC004.5RO	Dissolved Oxygen:	11.70 mg/L
Date/Time Collected:	05/28/2009 11:52	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	05/28/2009 14:31		
Received By:	Ken Hitchman		

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.09J	µg/L	0.029	0.2	A Bass	6/2/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected